4-12-05 DENCH

R&D

BAKEOUT SKID LOTO TRAINING TEST QUESTIONS FOR ASD-ME PERSONNEL

1. Where do you install your lock when performing LOTO on a bakeout skid?

   A On the 480 volt switch on the orange bakeout panel
   B On the breaker panel that feeds the bakeout system
   C On the disconnect switches adjacent to the bakeout skid
   D None of the above

2. How many locks must be installed when performing LOTO on a bakeout skid? 2

3. What type of power is fed to the bakeout skid from the disconnect switches?

   A 480VAC, 3 phase
   B 120VAC single phase
   C 480 volt
   D 480 volt, single phase

4. How many wires carry electric current into the bakeout skid?

   A 3
   B 2
   C 6
   D 12

5. How many measurements have to be made with a voltmeter in order to verify that a bakeout skid is de-energized:

   A 3 phase-to-phase
   B 6 3 phase-to-phase and 3 phase-to-ground
   C 9 3 phase-to-phase, 3 phase-to-neutral and 3 phase-to-ground
   D 12 6 phase-to-phase and 6 phase-to-ground

6. You are the safety watch while another ASD-ME technician verifies that the bakeout skid is de-energized. After the verification is complete, you need to work inside the bakeout skid panel. How should you proceed to verify for yourself that the bakeout skid is de-energized?

   A just put your lock(s) on in the right place and feel good that you didn't have to put on all that goofy PPE

   B go and get another set of PPE, put it on and join the other ASD-ME tech and verify again that the skid is de-energized

   C have the first ASD-ME tech remove the PPE, put it on yourself and verify that the skid is de-energized while the other tech stands safety watch for you

(D) Have the first tech remove his/her hood and demonstrate for you that the skid is de-energized by repeating the measurement he/she made earlier (while he/she was wearing the hood and you stood safety watch at a safe distance) and allowing you to observe the readings on the meter

E Either B, C or D

7. Someone from the Vacuum Group calls you to demonstrate that the bakeout skid on which you have a LOTO is really de-energized so that they can also install LOTO. You did not do the verification with the coveralls, arc flash hood, etc. You did, though, witness the verification. Can you safely demonstrate to the Vacuum group member that the bakeout skid is de-energized without putting on all the PPE? Yes

8. What is the minimum rating for the coveralls and arc flash hood used during initial verification that the bakeout skid is de-energized?

A 8 cal/cm
(B) 20 cal/cm

9. In the photos below, make a mark at each point where a wire from the disconnect switches is terminated in the bakeout skid panel.